

APPLICANTS: Wands et al.
SERIAL NUMBER: 09/903,248

In the claims:

Cancel claims 30, 32, 44, 49-50, 53, 55, and 57-58. Amend claims 29, 31, 33, 34, 39-41, 45-47, and 54. 52 and 55

29. (amended) A monoclonal antibody that binds to an epitope within a catalytic domain of HAAH, said domain comprising residues 650-700 of SEQ ID NO:2.

31. A monoclonal antibody that binds to an epitope of SEQ ID NO:2, wherein said monoclonal antibody is selected from the group consisting of 5C7 produced by hybridoma ATCC designation PTA 3383, 19B produced by hybridoma ATCC designation 3384, and 6A produced by hybridoma ATCC designation 3385.

33. A composition comprising a monoclonal antibody that binds to an epitope within a catalytic domain of HAAH, said antibody being linked to a cytotoxic agent, wherein said domain comprises residues 650-700 of SEQ ID NO:2.

34. A kit for diagnosis of a tumor in a mammal, comprising a monoclonal antibody that binds to an epitope within a catalytic domain of HAAH, said catalytic domain comprising residues 650-700 of SEQ ID NO:2.

39. A fragment of a monoclonal antibody that binds to an epitope of SEQ ID NO:2, wherein said antibody is produced by hybridoma ATCC designation PTA 3386.

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40. The antibody of claim 39, wherein said fragment is a Fab or (Fab)₂ fragment.

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41. The antibody of claim 39, wherein said antibody is a single chain Fv molecule.

45. A composition comprising a fragment of an antibody produced by hybridoma ATCC designation PTA3386, said fragment being linked to a cytotoxic agent.

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46. The composition of claim 45, wherein said fragment is a Fab or (Fab)₂ fragment.

47. The composition of claim 45, wherein said fragment is a single chain Fv molecule.

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52. The composition of claim 33, wherein said cytotoxic agent is diphtheria toxin.

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54. The kit of claim 34, wherein said antibody is a Fab or (Fab)₂ fragment.

55. The kit of claim 34, wherein said antibody is a single chain Fv molecule.
